

ABSTRACT OF THE DISCLOSURE

A compound valve assembly for controlling oil flow includes a first and a second valve. The first valve is a pressure relief valve including a spring-biased plunger in a side gallery opening off a primary oil supply gallery leading to a pressure-actuated device. The relief spring allows oil above a predetermined pressure to displace the plunger and to be returned to an oil sump. The side gallery is closable by a secondary valve seat and a solenoid-actuated valve head. A passage through the plunger leads to the second valve seat. When the solenoid is deactivated, oil flows through the passage, through the second valve, and is returned to the sump. When high pressure is desired at the device, the solenoid closes the second valve. Captive oil assumes the same pressure as the supply pressure, and the relief valve function is disabled, causing high pressure oil to flow to the device.